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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,078	04/03/2001	Roberto DeLima	RSW92000141US1	9743
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Jeanine S. Ray-Yarletts			BRUCKART, BENJAMIN R	
IBM Corporation T81/503 PO Box 12195		ART UNIT	PAPER NUMBER	
Research Triangle Park, NC 27709			2155	

DATE MAILED: 04/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/825,078	DELIMA ET AL.					
Office Action Summary	Examiner	Art Unit					
	Benjamin R. Bruckart	2155					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
 1) Responsive to communication(s) filed on 27 Fe 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro						
Disposition of Claims							
 4) Claim(s) 1-4,6-15,17-21,23-30,32-34,37-39,41-48 and 50-57 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6-15,17-21,23-30,32-34,37-39,41-48 and 50-57 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive n (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa						
6. Patent and Trademark Office							

Detailed Action

Status of Claims:

Claims 1-4, 6-15, 17-21, 23-30, 32-34, 37-39, 41-48, 50-57 are pending in this Office Action. Claims 5, 16, 22, 31, 35-36, 40, and 49 are cancelled.

Specification

The changes to the specification are accepted.

Claim Rejections - 35 USC § 112

The 35 U.S.C. 112, second paragraph rejection is withdrawn in light of applicant's amendment

Response to Arguments

Applicant's arguments filed 3/27/06 have been fully considered but are moot in view of new grounds of rejection

Applicant's invention as claimed:

Claims 1-4, 6, 12, 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Network Working Group, RFC 1349 by Almquist et al (July 1992).

Regarding claim 1, a method of providing improved quality of service over a series of related messages exchanged between computers in a networking environment that are related to the transaction (RFC: page 3, para 1-3), comprising:

determining one or more transactional quality of service ("TQoS") values to be applied to the related messages (RFC: page 5; section 4 specification of the ToS field, section 4);

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using the determined TQoS values when transmitting at least one of the related messages for delivery to a particular one of the computers, wherein the particular computer is a client computer (RFC: page 1, Summary; hosts and routers);

annotating <u>a routing token of selected ones of the related messages with information</u> reflecting the determined TQoS values (RFC: page 4-5; IP header with ToS values);

transmitting the annotated ones of the related messages with the information reflecting the determined TQoS values from a server computer to the client computer (RFC: page 12, 7.2 forwarding, third para);

receiving the transmitted annotated messages at the client computer (RFC: pages 9-10, section 7-7.1; destination); and

transmitting the TQoS values from the client computer to the server computer with subsequent ones of the related messages (RFC: pages 9-10, section 7-7.1; page 12, 7.2).

Regarding claim 2, the method according to claim 1, wherein one of the TQoS values for a transmission priority value to be used when transmitting the annotated messages (RFC: pages 4 and 5; sections 3-4; changing the ToS value to minimize delay changes the priority of the path).

Regarding claim 14, the method according to claim 2, further comprising using the transmission priority value to prioritize the transmission of the at least one transmitted message through the networking environment (RFC: page 12, section 7.2).

Regarding claim 3, the method according to claim 1, wherein one of the TQoS values is available bandwidth information pertaining to a network connection to the particular computer (RFC: pages 5 and 6, specification 4).

Regarding claim 13, the method according to claim 3, further comprising enforcing bandwidth allocation using the available bandwidth information as the at least one transmitted message is transmitted through the networking environment (RFC: page 12, section 7.2).

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Regarding claim 4, the method according to claim 1, further comprising storing the determined TQoS values for use when transmitting subsequent ones of the related messages to the particular computer (RFC: page 10, 7.1 para 3).

Regarding claim 15, the method according to claim 4, wherein storing the determined TQoS values for use when transmitting subsequent ones of the related messages to the particular computer comprises storing the determined TQoS values in a server computer (RFC: page 10, 7.1 para 3).

Regarding claim 6, the method according to claim 1, wherein:

the annotated messages transmitted from the server computer to the client computer comprise an object reference that is annotated to carry the TQoS values (RFC: page 4, section 3; the header); and

transmitting the TQoS values from the client computer to the server computer with subsequent ones of the related messages comprises automatically returning the TQoS values to the server computer with subsequent ones of the related messages based on the annotation of the object reference in a related message that is received from the server computer (RFC: pages 9-10, section 7-7.1; page 12, 7.2).

Regarding claim 12, the method according to claim 1, wherein using the determined TQoS values when transmitting at least one of the related messages for delivery to a particular one of the computers further comprises using the determined TQoS values to set markings in a network layer header of the transmitted annotated messages (RFC: page 4, section 3).

Claims 7-11, 17-18, 34, 52-53 are rejected under 35 U.S.C. 103(a) as being unpatentable by Network Working Group, RFC 1349 by Almquist et al (July 1992) in view of U.S. Patent No. 6,247,050 by Tso et al.

Regarding claim 7, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message is for. However, the Tso reference teaches wherein at least one of the annotated messages is a response that serves a web page to the particular computer (Tso: col. 5,

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lines 55-col. 6, line 31) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 8, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message is for. However, the Tso reference teaches, wherein at least one of the annotated messages is a request from the particular computer for a Web page (Tso: col. 5, lines 8-23) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 9, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message is for. However, the Tso reference teaches, wherein at least one of the annotated messages is a request from the particular computer for a Web object (Tso: col. 5, lines 8-23) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a web object as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 10, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message is for. However, the Tso reference teaches, wherein at least one of the annotated messages is a response that serves a Web page to the particular computer (Tso: col. 5,

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lines 55-col. 6, line 31) and wherein at least one of the subsequent ones of the related messages is a request for information referenced by the Web page (Tso: col. 7, lines 4-37; col. 8, lines 58-65) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

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It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 11, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message is for. However, the Tso reference teaches, wherein at least one of the annotated messages is a response that serves a Web page to the particular computer (Tso: col. 5, lines 55-col. 6, line 31) and wherein at least one of the subsequent ones of the related messages is a request for information selected from the Web page by a user of the particular computer (Tso: col. 7, lines 4-37; col. 8, lines 58-65; another request) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

With regards to claim 52, the RFC page teaches the method according to claim 1. The RFC fails to teach utilizing a cookie. However, the Tso reference teaches, further comprising storing TQoS values as one or more cookies on the client computer (Tso: col. 7, lines 17-26; col. 8, lines 41-45) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

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With regards to claim 53, the RFC page teaches the method according to claim 52. The RFC fails to teach use of a cookie. However, the Tso reference teaches transmitting the TQoS values from the client computer to the server computer with subsequent ones of the related messages comprises determining the TQoS values to be transmitted from the client computer based on the stored one or more cookies on the client computer (Tso: col. 7, lines 17-26) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 17, the RFC page teaches the method according to claim 1. The RFC fails to teach what the message has URL. However, the Tso reference teaches, wherein the routing token is used to modify a Uniform Resource Locator from a header of selected ones of the related messages (Tso: col. 6, lines 18-39) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include modifying a URL in the header as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 18, the RFC page teaches the method according to claim 17. The RFC fails to teach the use of cookies. However, the Tso reference teaches, wherein the routing token further comprises information enabling identification of the <u>client</u> computer and another computer which performs the transmitting step (Tso: col. 6, lines 22-26; col. 5, lines 55-58; col. 7, lines 38-50), as well as identification of a <u>cookie on the client computer</u> used to store the determined TQoS values for the related messages (Tso: col. 6, lines 55-67) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

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It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

Regarding claim 34, the RFC page teaches the system according to claim 22, wherein:

the TQoS values comprise at least (1) a transmission priority value to be used when transmitting the annotated messages (RFC: pages 4 and 5; sections 3-4; changing the ToS value to minimize delay changes the priority of the path) and (2) available bandwidth information pertaining to a network connection to the particular computer (RFC: pages 10-12, 7.2 forwarding tables); and

wherein the means for using the determined TQoS values further comprises using the determined TQoS values, to prioritize transmission of the packet to enforce bandwidth allocation using the available bandwidth information as the packet is transmitted (RFC: page 12, section 7.2). The RFC fails to teach what the message is for. However, the Tso reference teaches at least one of the annotated messages is a response that serves a Web object to the particular computer from a network cache (Tso: col. 5, lines 55-col. 6, line 31) in order to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

It would have been obvious at the time of the invention to one of ordinary skill in the art to create the method of annotating messages as taught by the RFC to include a request for serving a webpage as taught by Tso to improve the performance of client and network data communications (Tso: col. 1, lines 58-62).

The examiner understands the difference between a method, system and computer program product, the examiner equates the method to the code, hardware, and actions of which invention runs. Therefore the claims are rejected as cited above as being substantially similar.

Claims 1-4, 6, 12, 13-15; 19-21, 23, 27-30; 37-39, 41, 45-48 are rejected under 35 U.S.C. 102(b) as being anticipated by Network Working Group, RFC 1349 by Almquist et al (July 1992).

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Claims 7-11, 17-18, 34, 52-53; 24-26. 32-33, 54-55; 42-44, 50-51, 56-57 are rejected under 35 U.S.C. 103(a) as being unpatentable by Network Working Group, RFC 1349 by Almquist et al (July 1992) in view of U.S. Patent No. 6,247,050 by Tso et al.

REMARKS

Applicant has amended the independent claim preamble and body to include subject matter from a previously dependent, now canceled, claim.

Applicant points out that no rejection is made on claims 19-21, 23-33, 37-39, 41-41 or 54-57 which was erroneously made in the reopening. All claims are rejected in parallel with rejected claims as indicated in the table and statements made in the final rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R. Bruckart whose telephone number is (571) 272-3982. The examiner can normally be reached on 8:00-5:30PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Benjamin R Bruckart Examiner Art Unit 2155 brb

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